

METHOD AND APPARATUS OF DETECTING INTERNAL MOTOR FAULTS IN AN INDUCTION MACHINE

Abstract of Disclosure

The present invention is directed to a condition monitoring system for determining internal motor fault information. Voltage and current data are acquired from an induction machine in operation. Reactive and real power delivered to the induction machine is then determined from the voltage and current data. An inspection of the frequency spectrum of the real power as well as the reactive power is then used to ascertain load and motor condition. Specifically, an analysis of the frequency spectrum of the reactive power may be inspected for information relating to an internal motor fault whereas the frequency spectrum of the real power may be inspected for information relating to motor-driven or load faults.

Figures